AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

- 1. (Withdrawn) A method for inducing transplantation tolerance including the step of administering a G-CSF derivative, or biologically active fragment, homolog or variant thereof, to a donor cell to be transplanted to a recipient.
- 2. (Withdrawn) The method of claim 1 wherein the G-CSF derivative, or biologically active fragment, homolog or variant thereof, comprises recombinant G-CSF.
- 3. (Withdrawn) The method of claim 2 wherein the recombinant G-CSF comprises recombinant human G-CSF.
- 4. (Withdrawn) The method of claim 3 wherein the recombinant human G-CSF comprises recombinant methionyl human G-CSF.
- 5. (Withdrawn) The method of claim 4 wherein the recombinant methionyl human G-CSF is non-glycosylated.
- 6. (Withdrawn) The method of claim 1 wherein the G-CSF derivative, or biologically active fragment, homolog or variant thereof, comprises peg-G-CSF, or biologically active fragment, homolog or variant thereof.
- 7. (Withdrawn) The method of claim 6 wherein the G-CSF derivative, or biologically active fragment, homolog or variant thereof, comprises an N-terminal methionyl residue to which a monomethoxypolyethylene glycol is covalently bound thereto.
- 8. (Withdrawn) The method of claim 1 wherein the G-CSF derivative comprises G-CSF or a biologically active G-CSF fragment having a same amino acid sequence as an amino acid sequence of endogenous G-CSF of the donor.
- 9. (Withdrawn) The method of claim 1 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof, is administered to the donor cell in vivo by administering said G-CSF derivative to a donor.

- 10. (Withdrawn) The method of claim 9 wherein the G-CSF derivative is administered to the donor as a single dose.
- 11. (Withdrawn) The method of claim 9 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof is administered to the donor in a range from $60 \mu g/Kg$ weight of the donor- $300 \mu g/kg$ weight of the donor.
- 12. (Withdrawn) The method of claim 9 wherein the donor is administered between 6 mg-18 mg of the G-CSF derivative or biologically active fragment, homolog or variant thereof, wherein said donor is human.
- 13. (Withdrawn) The method of claim 12 wherein the donor is administered 6 mg of the G-CSF derivative or biologically active fragment, homolog or variant thereof.
- 14. (Withdrawn) The method of claim 9 wherein the donor cell is isolated from the donor after in vivo administration of the G-CSF derivative or biologically active fragment, homolog or variant thereof.
- 15. (Withdrawn) The method of claim 1 wherein the donor cell comprises a cell obtained from an organ, blood or tissue, a single cell suspension, unseparated cells, enriched cells and homogeneous cells.
- 16. (Withdrawn) The method of claim 15 wherein the donor cell comprises an immune cell.
 - 17. (Withdrawn) The method of claim 16 wherein the immune cell is a T cell.
- 18. (Withdrawn) The method of claim 17 wherein administering the G-CSF derivative or biologically active fragment, homolog or variant thereof, stimulates the T cell to produce IL-10.
- 19. (Withdrawn) The method of claim 18 wherein the T cell is MHC class II restricted.
- 20. (Withdrawn) The method of claim 16 wherein the immune cell is a granulocyte-monocyte.

- 21. (Withdrawn) The method of claim 20 wherein the granulocyte-monocyte is characterized by a CD11c negative phenotype.
- 22. (Withdrawn) The method of claim 21 wherein the granulocyte-monocyte is further characterized by a CD11bhiGr-1dim phenotype.
- 23. (Withdrawn) The method of claim 22 wherein the donor granulocyte-monocyte is further characterized by a MHC Class I positive, MHC Class II positive, CD80 positive, CD86 positive and CD40 negative phenotype.
- 24. (Withdrawn) The method of claim 23 wherein the granulocyte-monocyte is capable of stimulating a T cell to produce IL-10.
 - 25. (Withdrawn) The method of claim 24 wherein the T cell is a donor T cell.
- 26. (Withdrawn) The method of claim 15 wherein the donor cell comprises a stem cell.
- 27. (Withdrawn) The method of claim 26 wherein the stem cell is obtained from a tissue selected from the group consisting of spleen, blood, bone marrow, skin, nasal tissue and hair follicle.
- 28. (Withdrawn) The method of claim 27 wherein the stem cell comprises a hematopoetic stem cell.
- 29. (Withdrawn) The method of claim 14 wherein the donor cell is isolated and purified as an enriched cell population.
- 30. (Withdrawn) The method of claim 29 wherein the enriched donor cell population comprises a homogeneous cell population.
- 31. (Withdrawn) The method of claim 1 wherein the donor cell is isolated from a donor before administering the G-CSF derivative or biologically active fragment, homolog or variant thereof, to the isolated donor cell.
- 32. (Withdrawn) The method of claim 29 further including the step of propagating the isolated donor cell in vitro before transplantation of the donor cell to the recipient.

- 33. (Withdrawn) The method of claim 1 wherein the donor cell is obtained from a mammal.
 - 34. (Withdrawn) The method of claim 1 wherein the recipient is a mammal.
 - 35. (Withdrawn) The method of claim 33 wherein the mammal is a human.
- 36. (Withdrawn) The method of claim 1 wherein transplantation tolerance comprises prevention or reduction of graft versus host disease in the recipient.
- 37. (Withdrawn) The method of claim 36 wherein the prevention or reduction of graft versus host disease is greater than that provided by administering G-CSF to the donor.
- 38. (Withdrawn) A method for stimulating a donor T cell to produce IL-10 including the step of administering a G-CSF derivative or biologically active fragment, homolog or variant thereof, to the donor T cell and a donor granulocyte-monocyte to be transplanted to a recipient.
- 39. (Withdrawn) The method of claim 38 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof comprises recombinant G-CSF.
- 40. (Withdrawn) The method of claim 39 wherein the recombinant G-CSF comprises recombinant human G-CSF.
- 41. (Withdrawn) The method of claim 40 wherein the recombinant human G-CSF comprises recombinant methionyl human G-CSF.
- 42. (Withdrawn) The method of claim 41 wherein the methionyl human G-CSF is not glycosylated.
- 43. (Withdrawn) The method of claim 39 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof, comprises polyethylene glycol.
- 44. (Withdrawn) The method of claim 43 wherein the G-CSF derivative, or biologically active fragment, homolog or variant thereof, comprises an N-terminal methionyl residue to which a monomethoxypolyethylene glycol is covalently bound thereto.

- 45. (Withdrawn) The method of claim 38 wherein the donor granulocyte-monocyte is characterized by a CD11c negative and a CD11bhiGr-1dim phenotype.
- 46. (Withdrawn) The method of claim 38 wherein the donor T cell and donor granulocyte-monocyte are obtained from a mammal.
 - 47. (Withdrawn) The method of claim 46 wherein the recipient is a mammal.
 - 48. (Withdrawn) The method of claim 46 wherein the mammal is a human.
- 49. (Withdrawn) The method of claim 38 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof, is administered in vivo to a donor before transplantation of the donor T cell to the recipient.
- 50. (Withdrawn) The method of claim 38 wherein donor non-immune cells in addition to the donor T cells and donor granulocyte-monocyte are transplanted to the recipient.
- 51. (Withdrawn) The method of claim 50 wherein donor non-immune cells comprise stem cells.
- 52. (Currently Amended) A pharmaceutical composition for inducing immunological tolerance when administered to a subject comprising a G-CSF derivative or biologically active fragment, homolog or variant thereof, an immune suppressing agent, and a pharmaceutically-acceptable carrier.
- 53. (Original) The pharmaceutical composition of claim 52 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof comprises recombinant G-CSF.
- 54. (Original) The pharmaceutical composition of claim 53 wherein the recombinant G-CSF comprises recombinant human G-CSF.
- 55. (Original) The pharmaceutical composition of claim 54 wherein the recombinant human G-CSF comprises recombinant methionyl human G-CSF.
- 56. (Original) The pharmaceutical composition of claim 56 wherein the recombinant methionyl human G-CSF is not glycosylated.

- 57. (Previously Presented) The pharmaceutical composition of claim 52 wherein the G-CSF derivative comprises peg-G-CSF.
- 58. (Original) The pharmaceutical composition of claim 57 wherein the G-CSF derivative, or biologically active fragment, homolog or variant thereof, comprises an N-terminal methionyl residue to which a monomethoxypolyethylene glycol is covalently bound thereto.
- 59. (Previously Presented) The pharmaceutical composition of claim 52 wherein immunological tolerance comprises transplantation tolerance and self-tolerance.
- 60. (Previously Presented) The pharmaceutical composition of claim 52 wherein administering the pharmaceutical composition induces greater immunological tolerance when compared with administering G-CSF.
- 61. (Previously Presented) The pharmaceutical composition of claim 52 wherein said subject is human.
- 62. (Withdrawn) A pharmaceutical composition for inducing immunological tolerance in a subject comprising one or more isolated cells having been administered a G-CSF derivative or biologically active fragment, homolog or variant thereof.
- 63. (Withdrawn) The pharmaceutical composition of claim 61 wherein the isolated cell comprises an immune cell.
- 64. (Withdrawn) The pharmaceutical composition of claim 62 wherein the immune cell comprises a T cell.
- 65. (Withdrawn) The pharmaceutical composition of claim 64 wherein the T cell produces IL-10.
- 66. (Withdrawn) The pharmaceutical composition of claim 65 wherein the immune cell comprises a granulocyte-monocyte.
- 67. (Withdrawn) The pharmaceutical composition claim 66 wherein the granulocyte-monocyte is characterized by a CD11c negative phenotype.

- 68. (Withdrawn) The pharmaceutical composition of claim 67 wherein the granulocyte-monocyte is further characterized by a CD11bhiGr-1dim phenotype.
- 69. (Withdrawn) The pharmaceutical composition of claim 62 wherein said subject is human.
- 70. (Withdrawn) The pharmaceutical composition of claim 62 wherein immunological tolerance prevents or reduces graft versus host disease.
- 71. (Withdrawn) Use of the pharmaceutical composition of claim 52 to induce immunological tolerance in a patient.
 - 72. (Withdrawn) A method of transplantation including the steps of:
- administering to a donor a pharmaceutical composition comprising a G-CSF derivative or biologically active fragment, homolog or variant thereof and a pharmaceuticallyacceptable carrier;
 - (2) isolating a cell, tissue or organ from said donor; and
 - (3) transplanting said cell, tissue or organ to a recipient.
- 73. (Withdrawn) The method of claim 72 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof comprise recombinant G-CSF derivative or biologically active fragment, homolog or variant thereof.
- 74. (Withdrawn) The method of claim 73 wherein the recombinant G-CSF derivative or biologically active fragment, homolog or variant thereof comprise human G-CSF derivative or biologically active fragment, homolog or variant thereof.
- 75. (Withdrawn) The method of claim 72 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof comprises peg-G-CSF derivative or biologically active fragment, homolog or variant thereof.
- 76. (Withdrawn) The method of claim 75 wherein the donor and recipient are human.

- 77. (Withdrawn) The method of claim 72 including the steps of isolating cells from the donor and propagating the isolated cells in vitro before transplanting said cells to the recipient.
- 78. (Withdrawn) The method of claim 72 wherein transplantation comprises heterologous transplantation whereby the donor and recipient are different individuals.
- 79. (Withdrawn) The method of claim 72 wherein transplantation comprises autologous transplantation whereby the donor and recipient are the same individual.
- 80. (Withdrawn) A method for inducing self-tolerance in a patient including the step of administering a G-CSF derivative or biologically active fragment, homolog or variant thereof, to the patient.
- 81. (Withdrawn) The method of claim 80 wherein inducing self-tolerance in the patient prevents, treats or reduces an autoimmune disorder of the patient.
- 82. (Withdrawn) The method of claim 80 wherein the patient is asymptomatic of an autoimmune disorder.
- 83. (Withdrawn) The method of claim 81 wherein the autoimmune disorder is selected from the group consisting of rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and inflammatory bowel disease.
- 84. (Withdrawn) The method of claim 80 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof stimulates an immune cell of the patient to thereby induce self-tolerance.
- 85. (Withdrawn) The method of claim 84 wherein the immune cell comprises a T cell.
- 86. (Withdrawn) The method of claim 85 wherein said T cell is stimulated to produce IL-10.
- 87. (Withdrawn) The method of claim 84 wherein the immune cell comprises a granulocyte-monocyte cell.

- 88. (Withdrawn) The method of claim 87 wherein said granulocyte-monocyte is characterized by a CD11c negative and CD11bhiGr-1dim phenotype
- 89. (Withdrawn) The method of claim 84 wherein the immune cell of the patient is isolated from the patient, propagated in vitro and administered to the patient.
- 90. (Withdrawn) The method claim 80 wherein the G-CSF derivative or biologically active fragment, homolog or variant thereof comprises peg-G-CSF or biologically active fragment, homolog or variant thereof.
- 91. (Withdrawn) The method of claim 90 wherein the peg-G-CSF comprises peghuman G-CSF or biologically active fragment, homolog or variant thereof.
- 92. (Withdrawn) The method of claim 91 wherein the peg-human G-CSF or biologically active fragment, homolog or variant thereof comprises peg-recombinant human G-CSF or biologically active fragment, homolog or variant thereof.